

Title (en)  
Silicon carbide fabrication

Title (de)  
Herstellung des Siliziumkarbids

Title (fr)  
Production de carbure de silicium

Publication  
**EP 0899358 A2 19990303 (EN)**

Application  
**EP 98116399 A 19980829**

Priority  
JP 25139497 A 19970901

Abstract (en)  
An SiC fabrication comprising a CVD-SiC fabrication excellent in strength and thermal characteristics. The SiC fabrication is prepared with a CVD process (i.e. CVD-SiC fabrication) which has a thermal conductivity along the direction of the SiC crystal growth between 100 and 300 W/m.K, and an average grain diameter of the internal structure between 4 to 12  $\mu$ m. It is preferred that the ratio of the thermal conductivity along the direction of the SiC crystal growth to the thermal conductivity in the perpendicular direction is in a range of 1.10 to 1.40.

IPC 1-7  
**C23C 16/32**; **C01B 31/36**

IPC 8 full level  
**C04B 35/565** (2006.01); **B28B 1/30** (2006.01); **C01B 31/36** (2006.01); **C23C 16/32** (2006.01); **C23C 16/42** (2006.01); **H01L 21/683** (2006.01)

CPC (source: EP KR US)  
**C01B 32/956** (2017.07 - EP US); **C01B 32/977** (2017.07 - EP US); **C23C 16/325** (2013.01 - EP KR US); **C01P 2004/61** (2013.01 - EP KR US); **C01P 2006/32** (2013.01 - EP KR US); **C01P 2006/90** (2013.01 - EP KR US)

Citation (applicant)  
• JP H07188927 A 19950725 - TOSHIBA CERAMICS CO  
• JP H08188408 A 19960723 - TOYO TANSO CO  
• JP H08188468 A 19960723 - TOYO TANSO CO

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CN111620704A; CN112830786A; WO2005097693A1; US11658060B2

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